

Datasheet for 600-401-AT2**DCLK3 Antibody****Overview**

Description:	Anti-DCLK3 (RABBIT) Antibody - 600-401-AT2
Item No.:	600-401-AT2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	DCLK3 is one of three doublecortin-like kinases similar to the Ca ²⁺ /calmodulin-dependent protein kinase (CaMK) family. DCLK3 mRNA, like that of the homologous DCLK1 and DCLK3, is highly expressed in adult brain, but only DCLK3 transcripts are present in liver and kidney, suggesting that DCLK3 may play other roles than in cortical development. The DCLK proteins are homologous to Doublecortin (DCX), a protein that is mutated in X-linked human lissencephaly. In mouse models where the DCX gene has been disrupted, DCLK1 expression increases slightly and appears to compensate for the loss of DCX, as mice mutant for both DCX and DCLK1 show a severe phenotype including perinatal lethality, disorganized neocortical layering, and profound hippocampal cytoarchitectural disorganization.
Synonyms:	DCLK3 Antibody, CLR, DCK3, DCDC3C, DCAMKL3, KIAA1765, Doublecortin domain-containing protein 3C
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DCLK3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DCLK3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the N-terminus of human DCLK3.
Purity/Specificity:	Anti-DCLK3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DCLK3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9C098 • GeneID - 85443 • NCBI - NP_208382

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DCLK3 Antibody has been tested for use in ELISA, Western Blotting, immunohistochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 74 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1, g/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

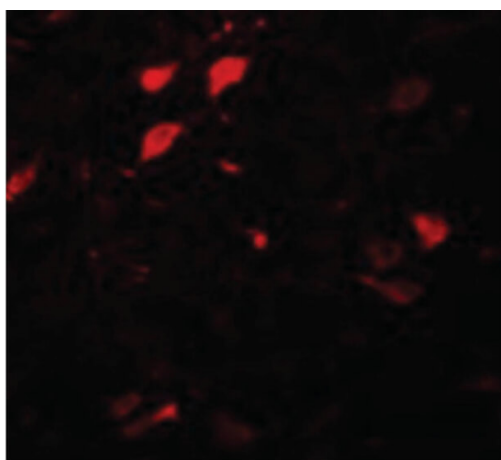
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

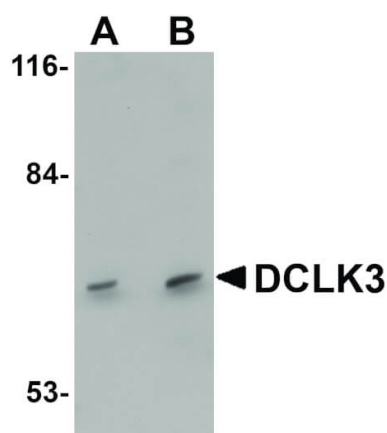
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of DLCK3 antibody.
 Tissue: Human brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: DLCK3 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DLCK3 is nuclear and cytoplasmic. Staining: DLCK3 as red fluorescent signal.



Western Blot

Western Blot of DLCK3 antibody. Lane 1: K562 cell lysate with DLCK3 antibody at 1 µg/mL. Lane 2: K562 cell lysate with DLCK3 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 74 kDa, 74 kDa for DLCK3. Other band(s): DLCK3 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.